

Serial No. 09/936,353

BARGHOORN et al.

FF++49819

A P P E N D I X I:

CLAIM AMENDMENTS:

Amend Claims 9, 15, 17, 24, 28 and 32 as indicated in the following listing of the claims:

1. - 8. (canceled)

9. (currently amended) A method for improving the chemicals resistance, reducing the swelling, and improving the stress-cracking resistance of styrene-acrylonitrile copolymers having a proportion of acrylonitrile of less than 28% by weight, comprising the step of adding phyllosilicates to said styrene-acrylonitrile copolymers, wherein the styrene-acrylonitrile copolymers have been built up from components A, C, and, where appropriate, B, ~~D~~, and E, using:

a: as component A, from 20 to 100% by weight, based on the entirety of components A + B, of a hard component made from one or more copolymers of styrene and/or α -methylstyrene with acrylonitrile, the proportion of acrylonitrile being from 10 to less than 28% by weight,

b: from 0 to 80% by weight, based on the entirety of components A + B, of at least one graft copolymer B made from

b1: as component B1, from 10 to 90% by weight of at least one elastomeric particulate graft base with a glass transition temperature below 0°C, and

b2: as component B2, from 10 to 90% by weight of at least one graft made from polystyrene or from a copolymer of styrene and/or α -methylstyrene with acrylonitrile, the proportion of acrylonitrile being from 10 to less than 28% by weight,

where the entirety of the components A + B used is from 10 to 100 parts by weight, based on the total weight of the components used,

c: as component C, from 0.05 to 5 parts by weight, based on the total weight of the components used, of a phyllosilicate,

~~d: as component D, from 0 to 90 parts by weight, based on the total weight of the components used, of at least one polycarbonate, and~~

e: as component E, from 0 to 20 parts by weight, based on the total weight of the components used, of other conventional auxiliaries and fillers, and

Serial No. 09/936,353

BARGHOORN et al.

PFI+49819

wherein the phyllosilicate is mica.

10. (previously presented) The method as claimed in claim 9, wherein the chemical resistance is improved with respect to chemicals selected from alcohols, C₃-C₈ alkanes, gasoline, premium gasoline, diesel, halogenated hydrocarbons, hypochlorite salts, and sodium dichloroisocyanate dihydrate.

11. - 13. (canceled)

14. (previously presented) The method as claimed in claim 9, wherein the proportion of acrylonitrile is from 18 to 27% by weight.

15. (currently amended) A thermoplastic molding composition built up from components A, C, and where appropriate, B, D and E, using

a: as component A, from 20 to 100% by weight, based on the entirety of components A + B, of a hard component made from one or more copolymers of styrene and/or α -methylstyrene with acrylonitrile, the proportion of acrylonitrile being from 10 to less than 28% by weight,

b: from 0 to 80% by weight, based on the entirety of components A + B, of at least one graft copolymer B made from

b1: as component B1, from 10 to 90% by weight of at least one elastomeric particulate graft base with a glass transition temperature below 0°C, and

b2: as component B2, from 10 to 90% by weight of at least one graft made from polystyrene or from a copolymer of styrene and/or α -methylstyrene with acrylonitrile, the proportion of acrylonitrile being from 10 to less than 28% by weight,

where the entirety of the components A + B used is from 10 to 100 parts by weight, based on the total weight of the components used,

c: as component C, from 0.05 to 5 parts by weight, based on the total weight of the components used, of a phyllosilicate,

~~d: as component D, from 0 to 90 parts by weight, based on the total weight of the components used, of at least one polycarbonate, and~~

e: as component E, from 0 to 20 parts by weight, based on the total weight of the components used, of other conventional auxiliaries and fillers,

wherein the phyllosilicate is mica.

Serial No. 09/936,353

BARGHOORN et al.

PF++49819

16. (previously presented) A thermoplastic molding composition as claimed in claim 15, wherein the proportion of acrylonitrile is from 18 to 27% by weight.
17. (previously presented) A process for preparing the styrene polymers with improved chemical resistance as claimed in claim 15, which comprises separately preparing components A and C, and, where appropriate, components B, D, and E, combining component A with component C, and intimately mixing and then extruding the same with components B, D, and E, as appropriate.
18. - 20. (canceled)
21. (previously presented) A method for improving the chemicals resistance, reducing the swelling, and improving the stress-cracking resistance of styrene copolymers, which comprises adding to said copolymers an effective amount of mica.
22. (previously presented) A method as claimed in claim 9, wherein the amount of mica is from 0.15 to 3 parts by weight.
23. (previously presented) A thermoplastic molding composition as claimed in claim 15, wherein the amount of mica is from 0.15 to 3 parts by weight.
24. (currently amended) A process for preparing the styrene polymers with improved chemical resistance as claimed in claim 23, which comprises separately preparing components A and C, and, where appropriate, components B, D, and E, combining component A with component C, and intimately mixing and then extruding the same with components B, D, and E, as appropriate.
25. (previously presented) A method as claimed in claim 21, wherein the amount of mica is from 0.15 to 3 parts by weight.
26. (previously presented) A method as claimed in claim 9, wherein the amount of component E is from 0 to 15 parts by weight.
27. (previously presented) A thermoplastic molding composition as claimed in claim 15, wherein the amount of component E is from 0 to 15 parts by weight.
28. (currently amended) A process for preparing the styrene polymers with improved chemical resistance as claimed in claim 27, which comprises separately preparing components A and C, and, where appropriate, components B, D, and E, combining component A with

Serial No. 09/936,353

BARGHOORN et al.

PF++49819

component C, and intimately mixing and then extruding the same with components B, D, and E, as appropriate.

29. (previously presented) A method as claimed in claim 21, wherein the styrene copolymers comprise from 0 to 15 parts by weight of other conventional auxiliaries and fillers.
30. (previously presented) A method as claimed in claim 22, wherein the amount of component E is from 0 to 15 parts by weight.
31. (previously presented) A thermoplastic molding composition as claimed in claim 23, wherein the amount of component E is from 0 to 15 parts by weight.
32. (currently amended) A process for preparing the styrene polymers with improved chemical resistance as claimed in claim 31, which comprises separately preparing components A and C, and, where appropriate, components B, D, and E, combining component A with component C, and intimately mixing and then extruding the same with components B, D, and E, as appropriate.
33. (previously presented) A method as claimed in claim 25, wherein the styrene copolymers comprise from 0 to 15 parts by weight of other conventional auxiliaries and fillers.

BEST AVAILABLE COPY